This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

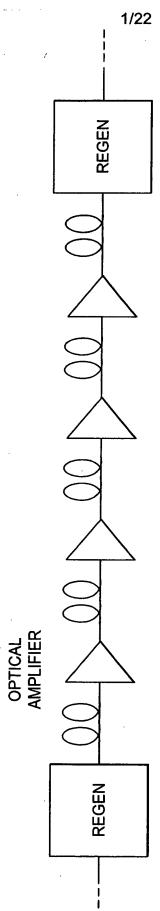
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 1 of 22



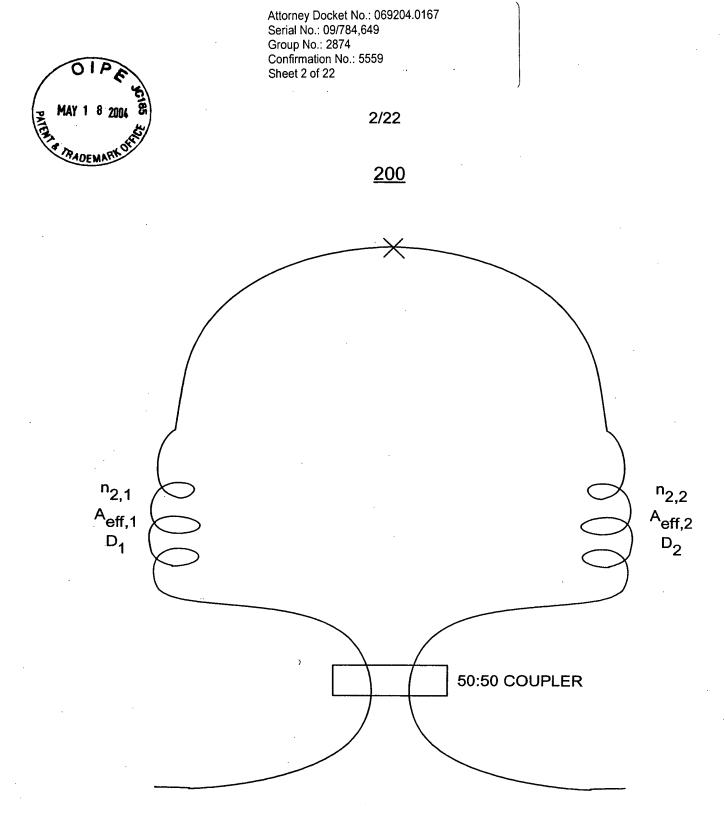
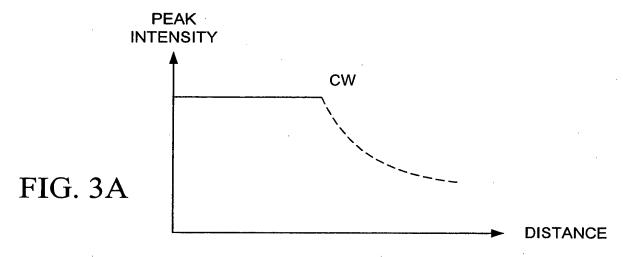


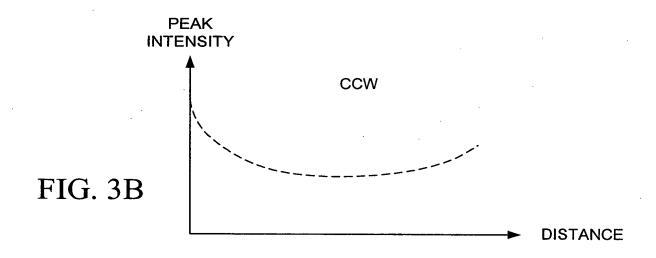
FIG. 2

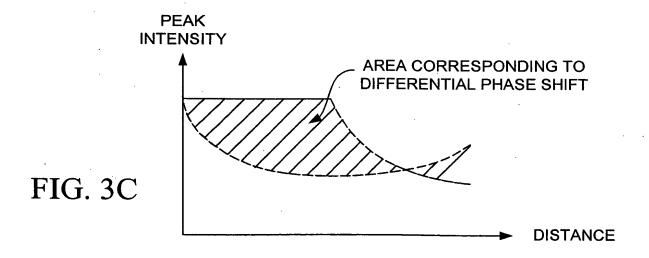


Attorney Docket No.: 069204.0167

Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 3 of 22







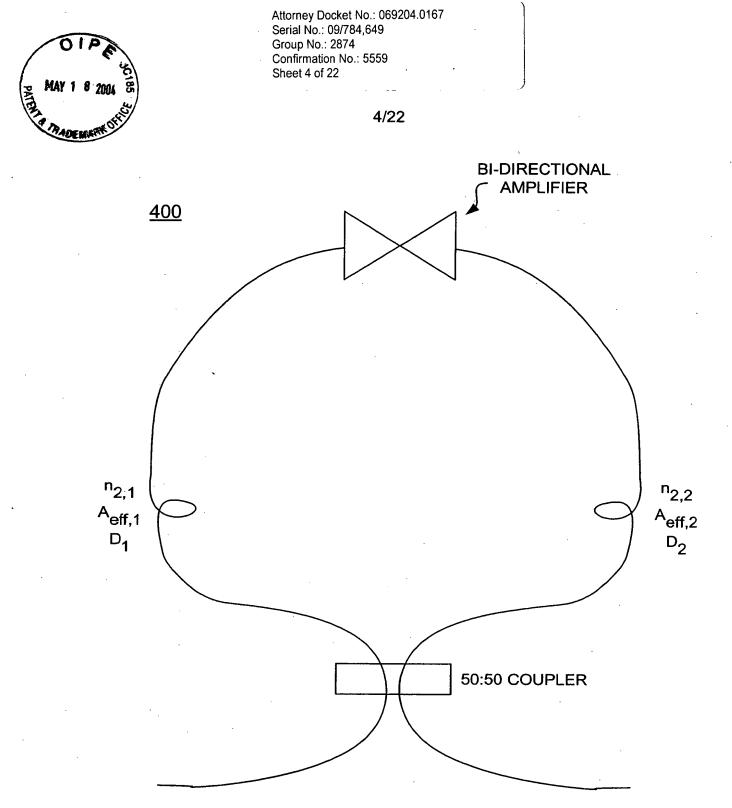
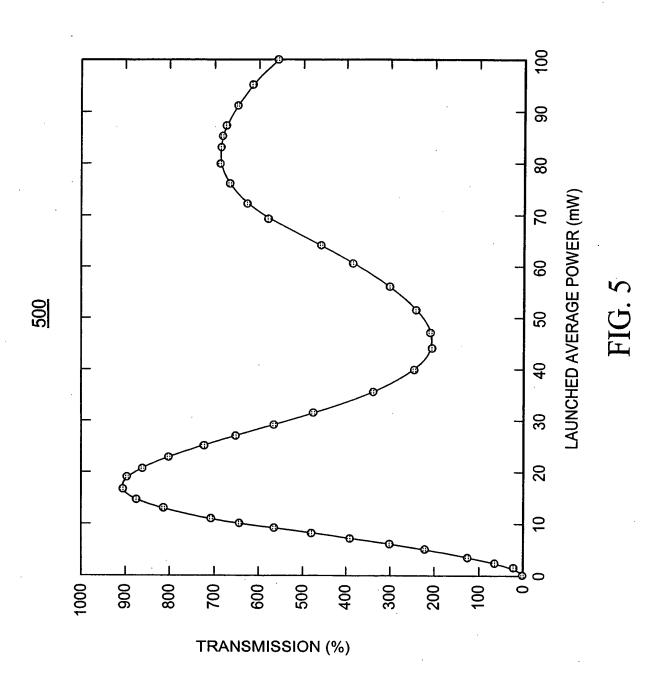


FIG. 4

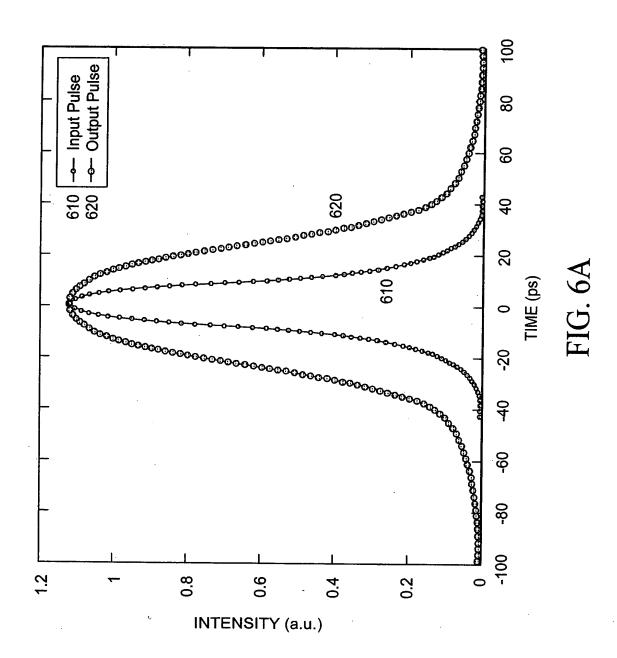


Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 5 of 22

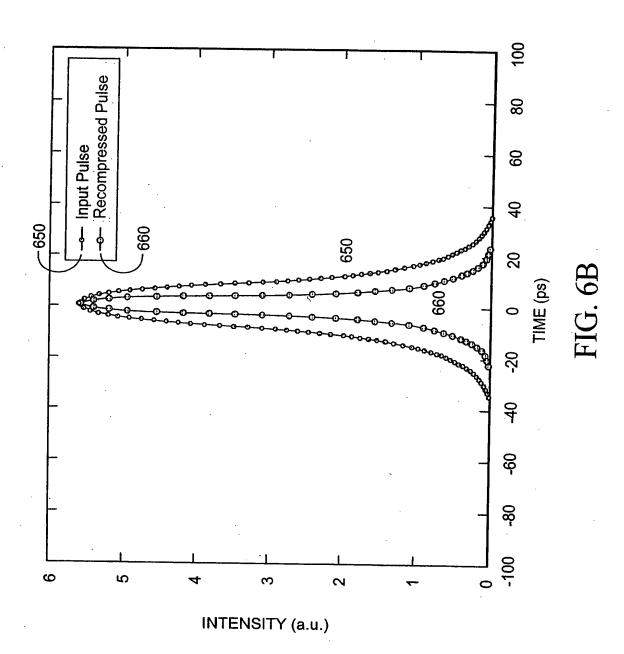




Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 6 of 22

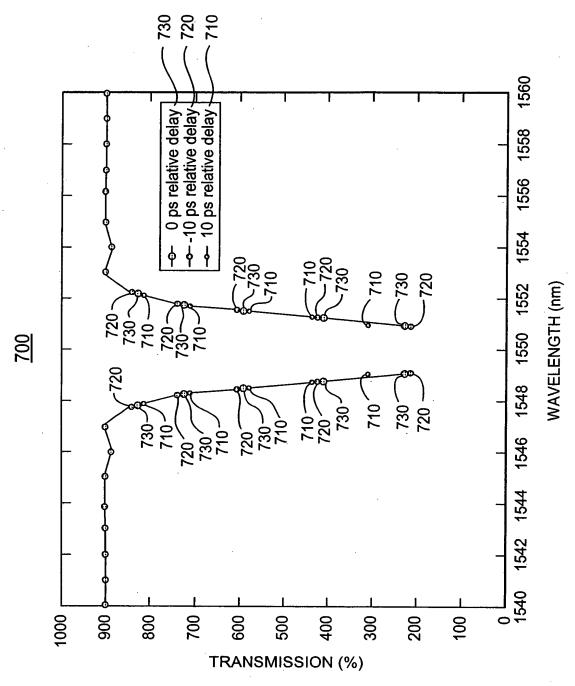


Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 7 of 22



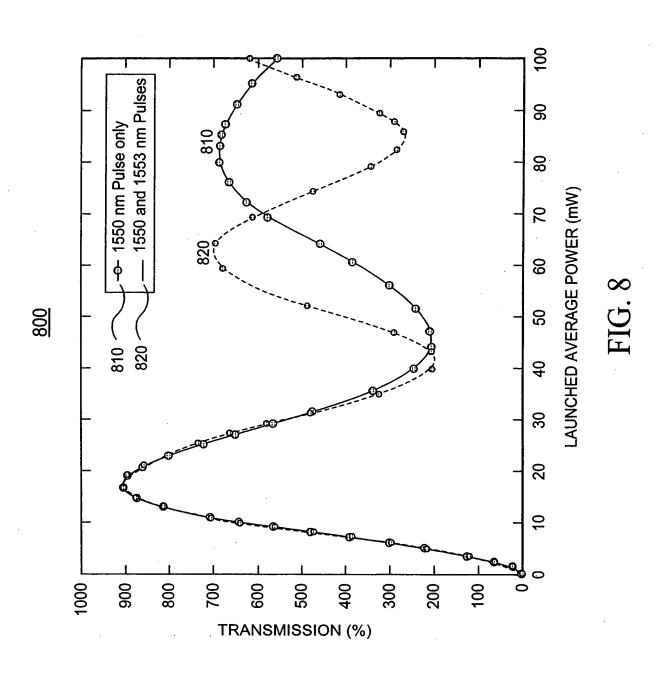
Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 8 of 22





Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 9 of 22







Attorney Docket No.: 069204.0167 Serial No.: 09/784,649

Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559

Sheet 10 of 22

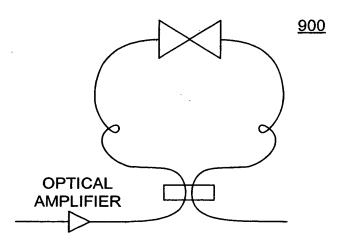
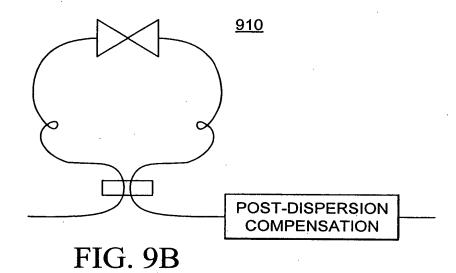
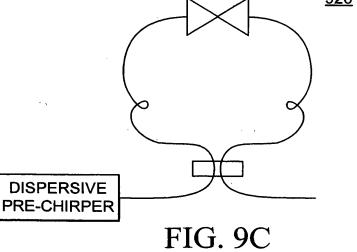
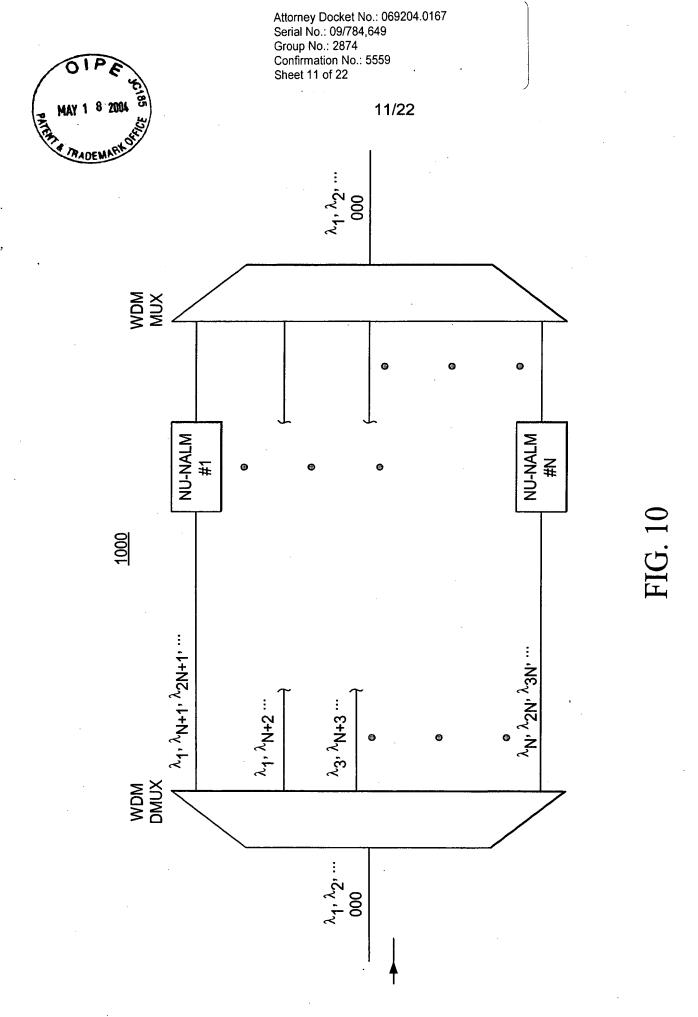


FIG. 9A



920



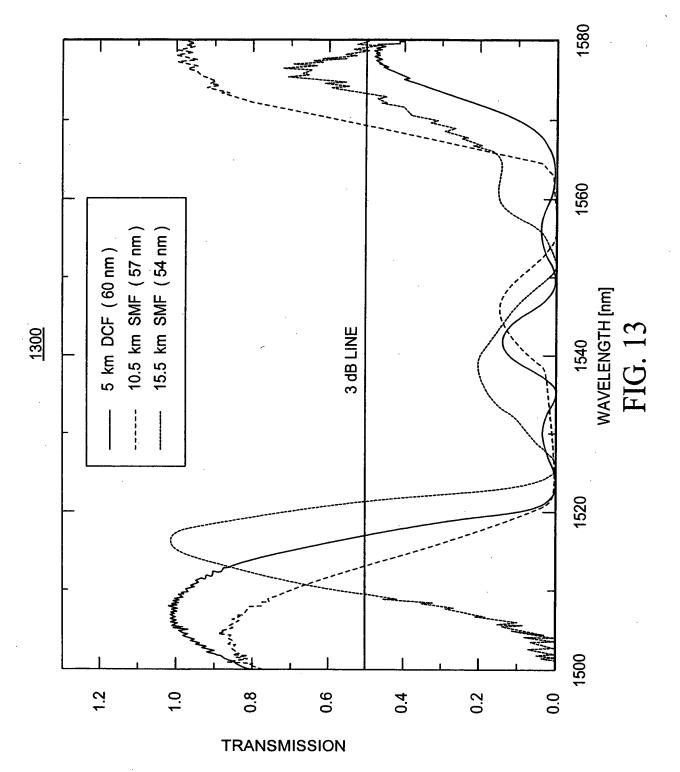


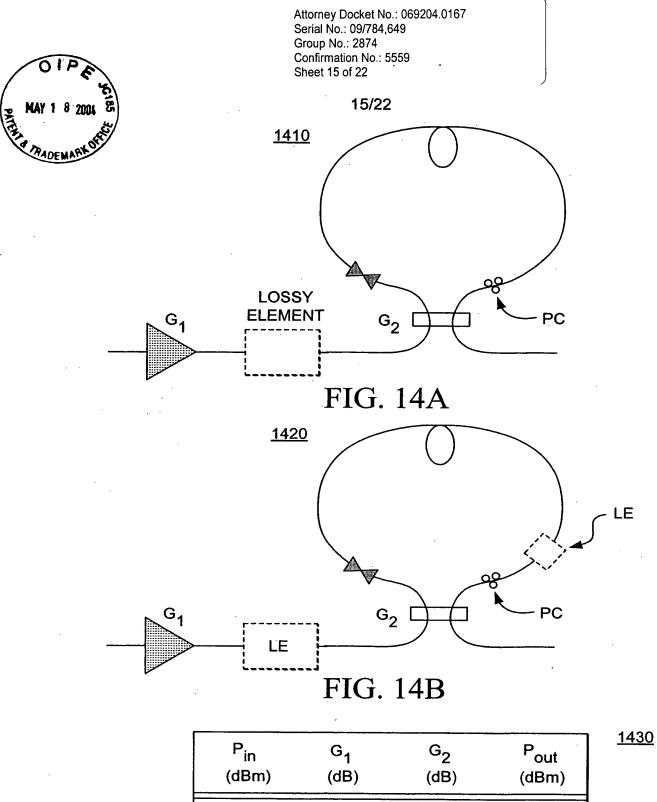
Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 12 of 22 12/22 LOSSY ELEMENT (OPTIONAL) OUTPUT ည 50:50 COUPLER 1100 DCF INPUT BI-DIRECTIONAL AMPLIFIER

Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 13 of 22 13/22 POWER AMP GAIN EQUALIZATION OPTICAL ADD-DROP MULTIPLEXER 1200 DISPERSION COMPENSATION (DCF) LOW NOISE PRE-AMP

FIG. 12

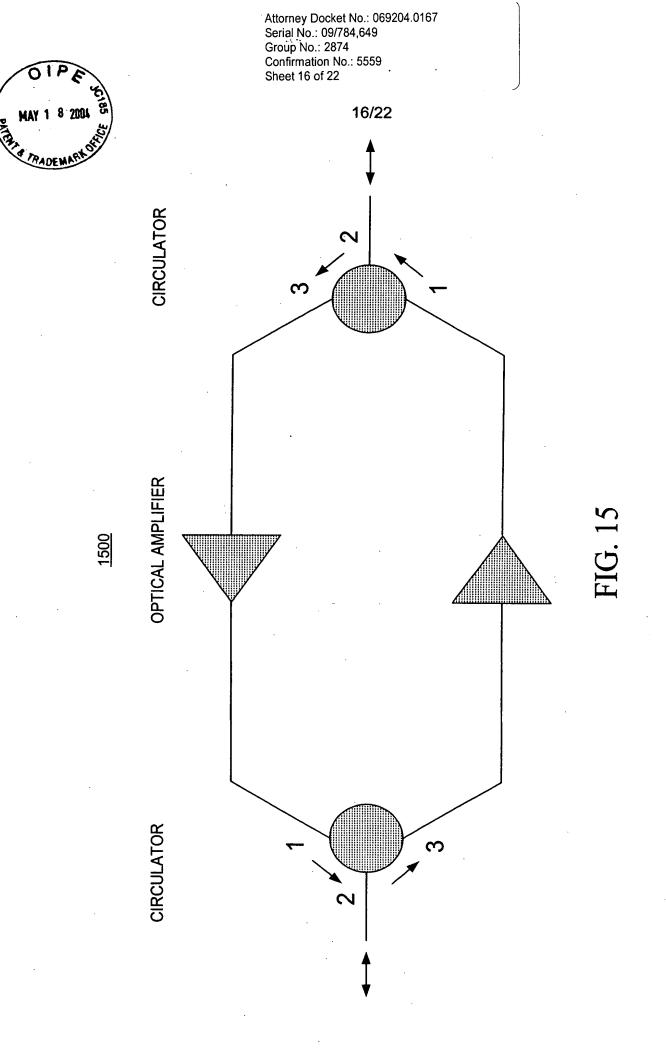
Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 14 of 22





P _{in} (dBm)	G ₁ (dB)	G ₂ (dB)	P _{out} (dBm)
-11	0	30	9.18
-11	5	25	9.17
-11	10	20	9.16
-11	15	15	9.10

FIG. 14C



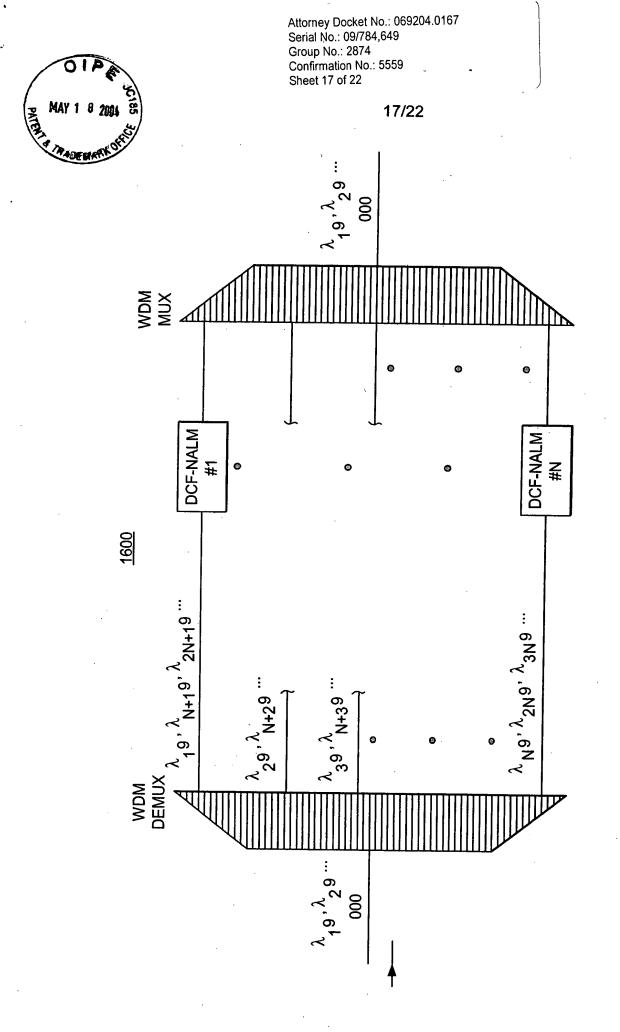
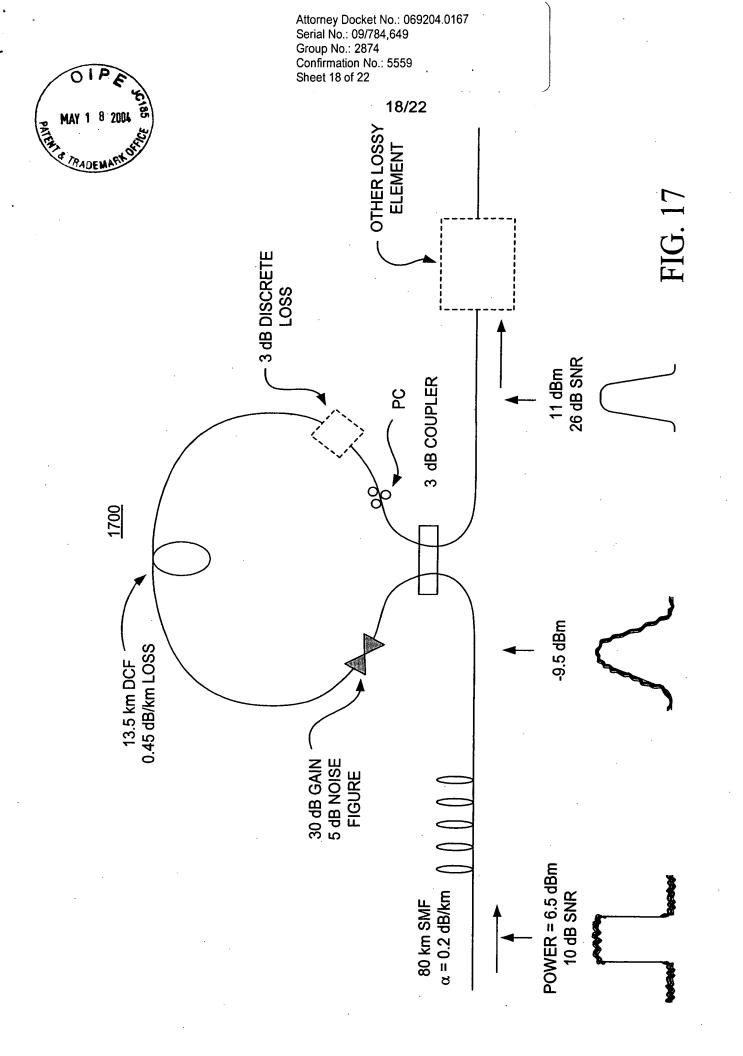
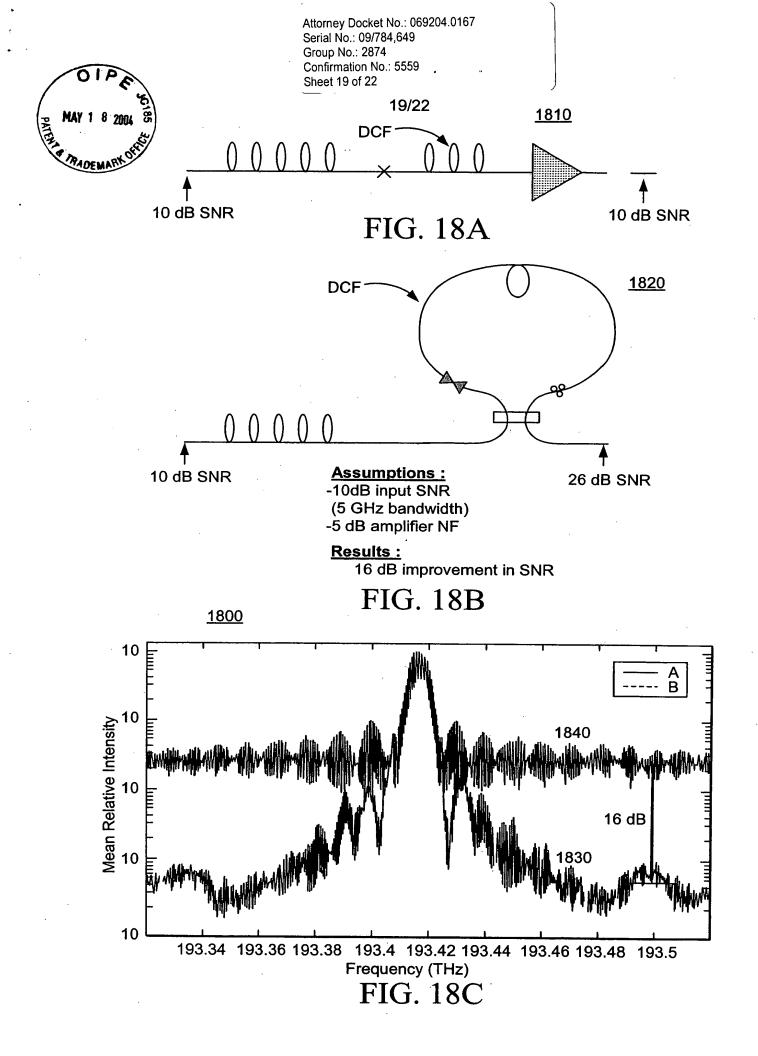


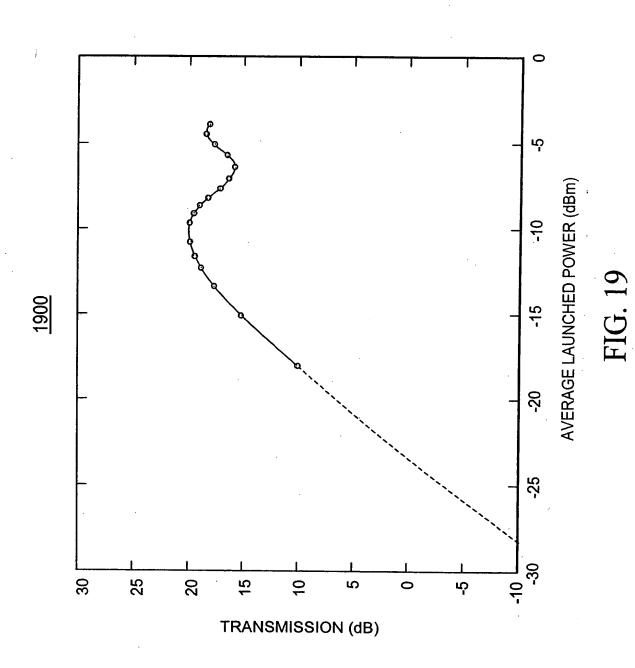
FIG. 16





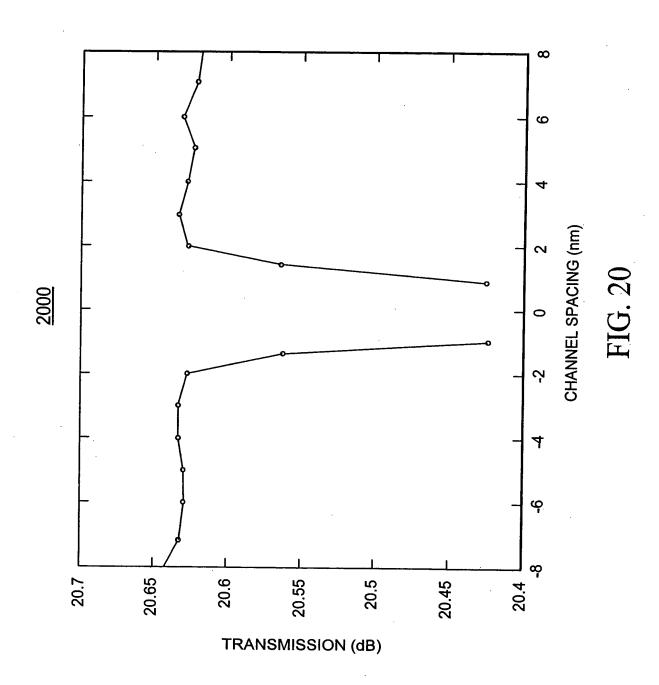
, Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 20 of 22





Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 21 of 22





Attorney Docket No.: 069204.0167 Serial No.: 09/784,649 Group No.: 2874 Confirmation No.: 5559 Sheet 22 of 22



